Base map from U.S. Geological Survey 1:24,000:

and Bingham Canyon, 1975.

Tooele,1969; Farnsworth Peak and Mills Junction, 1972;

Contour intervals 10 (Mills Junction quad.), 20 (Tooele quad.), and

40 (Bingham Canyon and Farnsworth Peak quads.) feet

Field work by B. J. Solomon, 1990-91

Lori J. Douglas, Cartographer

Mapping by William R. Lund and Bill D. Black May, June 1993 A STATIONS 0 TO 45 Planimetric base constructed on a 1 m x 1 m grid Drafted by Bea H. Mayes **EXPLANATION** UNIT DESCRIPTIONS¹ SYMBOLS (See appendix in text for detailed descriptions) STRATIGRAPHIC PACKAGE G - Post-Most-STRATIGRAPHIC PACKAGE E - Post-Lake STRATIGRAPHIC PACKAGE C - Penultimate Recent-Event Colluvium Laminations in silts and clays Bonneville/Pre-Most-Recent-Event **Event Colluvial Wedge** B1f Cobbly gravel with boulders G Gravelly, sandy clay/Gravelly, clayey sand S3 Paleosol, formed on unit C Contact, dashed where indistinct STRATIGRAPHIC PACKAGE F - Most-Recent C Gravelly, clayey sand and clayey, sandy Fault, dashed where indistinct **Event Colluvial Wedge EAST** gravel STRATIGRAPHIC PACKAGE B - Post-B1d Cobbly gravel with boulders Scarp free-face (buried) F Clayey, sandy gravel B1c Gravelly sand with clay and silt Soil B, horizon, clay enriched Antepenultimate/Pre-Penultimate Event Fluvial Deposits Soil K horizon, zone of carbonate accumulation B1b Gravel STRATIGRAPHIC PACKAGE D - Lacustrine STRATIGRAPHIC PACKAGE FZ - Sheared Fault-B1a Cobbly, sandy gravel B5 Sediments beneath penultimate even Carbonate-filled crack in unit D3 Deposits of the Bonneville Lake Cycle² Zone Material STRATIGRAPHIC PACKAGE A - Pre- and colluvial wedge Manganese ? layer in unit D3 D4 Regressive beach deposit FZ Sandy gravel with cobbles Sandy, clayey silt Bouldery, cobbly, sandy gravel Immediately Post-Antepenultimate Event D3 Deep-water deposit B4 Sediments downfaulted with penultimate □ △ Radiocarbon samples of detrital charcoal³ event colluvial wedge during most-recent S1 Paleosol, on units A2b, A2c, and A3a OFPC RC2 20,370 +/- 120 yr B.P.4 S2 Paleosol, on units A2b and A3b D2 Nearshore transgressive deposits OFPC RC3 26,200 +/- 220 yr B.P.⁵ upthrown side of fault Gravelly sand A3 Fluvial deposits that incise or mantle the OFPC RC5 34,070 +/- 1,160 yr B.P.4 B3 Coarse-grained sediments interbedded antepenultimate event scarp D2c Gravelly sand D2b Sandy gravel with cobbles with unit B2 A3b Gravelly, clayey sand (debris-(13C adjusted age 33,950 Sand with gravel B2 Fine-grained sediments filling a buried +/- 1,160 yr B.P.) A3a Sandy gravel (cut and fill) D1 Nearshore transgressive deposits stream channel A2 Colluvial and eolian deposits mantling the downthrown side of fault Silty clay with sand stringers antepenultimate event degraded free face D1b Sandy gravel with cobbles B1 Coarse-grained fluvial deposits truncated, A2c Sandy silt (loess) (prograding bar) D1a Silty clay with sand (marsh interbedded with or buried by unit B2 A2b Cobbly, sandy gravel with silt B1j Gravelly sand B1i Sand with gravelly sand stringers A2a Sandy silt (loess) B1h Gravelly sand with cobbles A1 Pre-antepenultimate event alluvial and eolian deposits A1c Sandy gravel (debris-flood A1b Sandy silt (loess) A1a Sandy gravel with silt and **WEST** Footnotes: ¹Descriptions do not necessarily include all of units A through G; only units exposed in this part of this trench are included. ²Deposited during the Bonneville lake cycle. Lake Bonneville occupied part of the eastern Great Basin from about 30 kya to 12 kya (Scott and others, 1983; Oviatt and others, 1992). Lake Bonneville first transgressed across the Pole Canyon site about 20 kya and regressed across the site about 13-14 kya. ³Ages in radiocarbon years before 1950 A.D. Corrections for isotope fractions shown where made. All ages obtained using an atomic mass spectrometer. ⁴Age obtained from a single piece of detrital charcoal. ³Age obtained from numerous flecks of charcoal combined to form a single sample. Result represents an average age for the charcoal in unit B2.

LOG OF SOUTH WALL, POLE CANYON TRENCH OQUIRRH FAULT ZONE, TOOELE COUNTY, UTAH stations 0-45 (A) and stations 45-76 (B)

